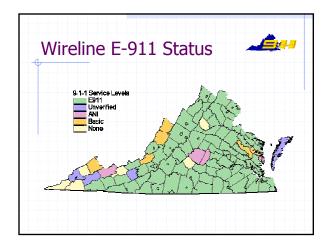


#### Local Issue



- ◆ Provision of E-911 is a local issue.
- ◆ 113 localities provide wireline E-911.
- ◆ 21 localities do not have wireline E-911.
- Wireless Board and DPSC provide funding and technical support when asked.
- ♦ Timing, priority, and effort must come from the locality.



# **Funding Provided**



| F  | Υ  | PSAPs | Localities | PSAP         |
|----|----|-------|------------|--------------|
|    |    |       | Served     | Funding      |
| 20 | 00 | 23    | 23         | \$6,186,607  |
| 20 | 01 | 40    | 50         | \$8,547,064  |
| 20 | 02 | 83    | 92         | \$17,722,676 |
| 20 | 03 | 125   | 131        | \$22,564,509 |
| 20 | 04 | 116   | 121        | \$18,978,045 |

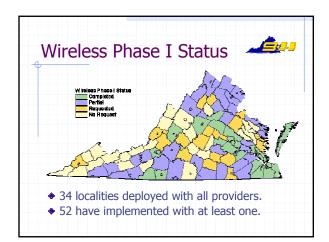
Total provided to date: \$58.5 million

#### Wireless Enhanced 9-1-1



- Phase 0
  - Locality taking the call typically on a dedicated seven-digit line.
- Phase I
  - Call is routed through the 9-1-1 system based on the cell site/sector receiving the call and provides the cell site information and call back number.
- Phase II
  - Same routing as Phase I, but latitude/longitude is provided within acceptable error rate.

# Phase I Accuracy Approximately 7 see 10 see



# Phase II - Technology



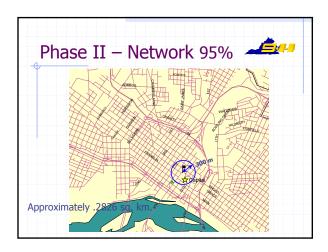
- Handset based solution
  - GPS
- Network based solution
  - Time Distance of Arrival
  - Angle of Arrival
  - Signal Pattern Matching

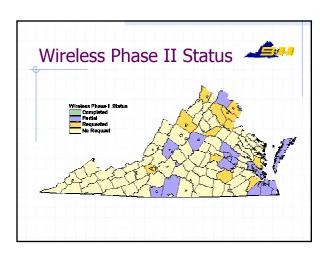
## Phase II - Accuracy



- Handset Based Solution
  - 50 meters / 67% of the calls
  - 150 meters / 95% of the calls
- Network Based Solution
  - 100 meters / 67% of the calls
  - 300 meters / 95% of the calls







### **Project Management**



- \$32K maximum cost recovery for project management for each Phase.
  - 40 hours per month for 8 months @ 100/hour
- Full cost recovery for regional project management efforts.
  - Consultant selected by Region
  - Invoiced through DPSC
  - Five contiguous localities as minimum to form a region

## 9-1-1 Network Design



- ◆ 22 9-1-1 switches.
- ◆ No ability to transfer between switches.
- ◆ Wireless 9-1-1 Fund does not support the existing network.
- Task force has been formed.
- Redesign project in process.

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